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## Office Memorandum • United States Government

то	: The Files (Facsimile Security DATE: 4 November 1954	50X1
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su <b>bject</b> :	Test and Evaluation of the Third Progress Report	50X1
	1. This is the third progress report covering the subject tests. The report covers the period 23 November 1953 to date.	
	2. Activity during the reporting period can be broken down as follows:	
	A. 23 November 1953 - 18 January 1954: Routine tests were conducted on the Engineering Lab model of the Tests were satisfactory and included use of both Facsimile and the OCD Intellofax equipment. All established key positions as set up in cryptographic aids operated satisfactorily after considerable reworking of the rotors and rotor baskets.	the
	B. 18 January 1954 - 15 September 1954 - Further plans for tests on Engineering Lab model of the were set aside in the interest of higher priority work. The engineer assigned to the	50X1
	tests was assigned temporarily to a project. During this	
	period the engineer concerned received training from NSA	50X1
	theory, conducted a preliminary test and evaluation of the equipment, and received further training in the theory of	50X1 50X1
	operation of the production engineering model of the	50X1
	equipment. Also during this period, NSA engineers conducte	
	a successful life test on the	50X1
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Test and Evaluation of the Facsimile  Cyphering Equipment, Third Progress Report - Cont'd 4 November 1954	50X1
3. With reference to the end result of the subject tests, tentative systems' planning has included all electronic aspects of a secure facsimile communications network. The radiation potential of both the facsimile equipment and the is under consideration by the Agency and NSA. NSA expects to	50X1
conduct a two year study of the problem with the assistance of a commercial contractor. Special adaptors are being made to allow use of the A contract is in process which calls for a study of band-compression techniques applicable to a facsimile communication system.	50X1
4. Future plans for the subject tests include:	
A. A 60 day error free test recommended by NSA.  B. Closely monitoring the NSA radiation investigations.	
C. Closely monitoring the band-compression study.	
D. A review of Agency requirements for facsimile applications.	
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